Claims

The party of the state of the party of the p	[c1]	1.A patient support system for a medical imaging system, comprising: a lateral rail structure attachable to a receptor of the medical imaging system; and a patient support movably coupled to the lateral rail structure via a rail guide structure.
	[c2]	2. The patient support system of claim 1, wherein the lateral rail structure has a curvilinear path.
	[c3]	3. The patient support system of claim 2, wherein the curvilinear path is convex.
	[c4]	4. The patient support system of claim 1, wherein the rail guide structure is releasably coupled to the lateral rail structure via a releasable latch.
	[c5]	5.The patient support system of claim 1, wherein the patient support is positionally securable along the lateral rail structure via a friction-based mechanism activated by a patient load applied to the patient support.
	[c6]	6.The patient support system of claim 1, wherein the patient support is continuously movable and securable along the lateral rail structure.
	[c7]	7. The patient support system of claim 1, wherein the patient support is a patient limb support.
	[c8]	8. The patient support system of claim 1, wherein the patient support is a patient extremity support.
	[c9]	9. The patient support system of claim 8, wherein the patient support is adapted to position patient extremity in a non-obstructive location relative to the receptor.
	[c10]	10. The patient support system of claim 1, wherein patient support comprises a plurality of hand grips.
	[c11]	11. The patient support system of claim 10, wherein the plurality of hand grips are disposed at different vertical positions.

-77 after from the state of the	[c12]	12.A patient support for an imaging system, comprising: a curvilinear rail structure attachable to, and movable with, a radiographic receptor of the imaging system; and
		a limb support slidingly coupled to the curvilinear rail structure.
	[c13]	13. The patient support of claim 12, wherein the curvilinear rail structure has a convex path.
	[c14]	14. The patient support of claim 12, comprising a releasable latch structure coupling the limb support to the curvilinear rail structure.
	[c15]	15. The patient support of claim 12, wherein the limb support is positionally securable along the curvilinear rail structure via a holding mechanism activated by weight of a patient limb supported by the limb support.
		16. The patient support of claim 12, wherein the limb support is continuously movable and securable along the curvilinear rail structure.
	[c17]	17. The patient support of claim 12, wherein the limb support is adapted to position a patient limb in a non-obstructive location relative to the radiographic receptor.
	[c18]	18. The patient support of claim 12, wherein limb support comprises a hand grip.
	[c19]	19. The patient support of claim 12, wherein limb support comprises a wrist support.
	[c20]	20. The patient support of claim 12, wherein the limb support comprises a plurality of lateral support members disposed at different vertical positions.
	[c21]	21.A medical imaging system, comprising: a radiographic receptor; a rail structure coupled to the radiographic receptor; and a patient extremity support slidingly coupled to the rail structure.
	[c22]	22. The medical imaging system of claim 21, wherein the radiographic receptor is a digital detector assembly.

The print of the print want of the first of the print of	[c23]	23. The medical imaging system of claim 21, wherein the radiographic receptor is coupled to a positioning system.
	[c24]	24. The medical imaging system of claim 21, wherein the rail structure is coupled to an upper rear portion of the radiographic receptor.
	[c25]	25.The medical imaging system of claim 21, wherein the rail structure has a curvilinear path.
	[c26]	26.The medical imaging system of claim 25, wherein the curvilinear path is convex.
	[c27]	27. The medical imaging system of claim 25, wherein the patient extremity support tiltingly slides along the rail structure with the curvilinear path.
	[c28]	28. The medical imaging system of claim 21, comprising a releasable latch structure coupling the patient extremity support to the rail structure.
	[c29]	29. The medical imaging system of claim 21, wherein the patient extremity support is frictionally securable along the rail structure via a holding mechanism activated by weight of a patient extremity supported by the patient extremity support.
	[c30]	30. The medical imaging system of claim 21, wherein the patient extremity support is movable in infinitesimal increments along the rail structure.
	[c31]	31. The medical imaging system of claim 21, wherein the patient extremity support is adapted to position a patient limb in a non-obstructive location relative to the radiographic receptor.
	[c32]	32.A method of supporting a patient limb during image acquisition by a medical imaging system, comprising the acts of: sliding a limb support along a rail structure coupled to, and movable with, a radiographic receptor of the medical imaging system; and securing the limb support in a desired position along the rail structure.
	[c33]	33. The method of claim 32, wherein the act of sliding the limb support along the rail structure comprises the act of sliding the limb support along a

curvilinear path.

[c34]	34. The method of claim 33, wherein the curvilinear path is convex.
[c35]	35. The method of claim 32, wherein the act of sliding the limb support along the rail structure comprises the act of moving the limb support in infinitesimal increments.
[c36]	36. The method of claim 32, wherein the act of securing the limb support in the desired position comprises the act of frictionally securing the limb support.
[c37]	37. The method of claim 36, wherein the act of frictionally securing the limb support is activated by performing the act of supporting the patient limb on the limb support.
3	38. The method of claim 32, wherein the act of securing the limb support in the desired position comprises the act of positioning a patient limb in a non-obstructive location relative to the radiographic receptor.
Graph 19.29 . many	39.A method of forming a laterally adjustable limb support for a medical imaging system, comprising the acts of: providing a lateral rail structure attachable to a receptor of the medical imaging system; and slidingly coupling a limb support to the lateral rail structure.
[c40]	40. The method of claim 39, wherein the lateral rail structure has a curvilinear path.
[c41]	41. The method of claim 40, wherein the curvilinear path is convex.
[c42]	42. The method of claim 39, comprising the act of providing a vertical release mechanism to facilitate vertical release of the limb support from the lateral rail structure.
[c43]	43. The method of claim 39, comprising the act of providing a friction-based securement mechanism to secure the limb support at a desired position along the lateral rail structure.

[c44] 44. The method of claim 43, wherein the act of providing a friction-based securement mechanism comprises the act of creating a holding force between the limb support and the receptor as a patient load is applied to the limb support. 45.A patient support structure for a medical imaging system, comprising: [c45] patient support means for supporting a patient extremity; and sliding attachment means for coupling the patient support means to a receptor of the medical imaging system. } [c46] 46.The patient support structure of claim 45, wherein the sliding attachment Hard Bud Gard means have a substantially linear path. [c47] 47.The patient support structure of claim 45, wherein the sliding attachment means have a curvilinear path. [c48] 48. The patient support structure of claim 45, comprising support releasing that H. Bom man that the means for releasing the patient support means from the sliding attachment means. [c49] 49. The patient support structure of claim 45, comprising support securing means for removably securing the patient support means to the sliding attachment means.